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Attorney Docket No. 960716RE/TL

IN THE UNITED STATES PATENT  
AND TRADEMARK OFFICE

Applicant(s) : Seiji TATSUTA

Serial No. : 09/851,874

Filed : 9 May 2001

Art Unit : 2624

Attorney:

Dated: June 21, 2001

REQUEST FOR CORRECTED  
FILING RECEIPT

Assistant Commissioner for Patents

ATTN: APPLICATIONS BRANCH

Sir:

Please issue a corrected Filing Receipt correcting the error indicated in red on the accompanying copy.

Please also correct the Patent Office records.

Under Domestic Priority data as claimed by applicant, correct to --THIS APPLICATION IS A REI OF USP 5,943,448--

The serial number of USP 5,943,448 is 08/764,136.

Attached is a photocopy of the title page of the surrendered U.S. Patent.

Please correct all of the pertinent data.

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Respectfully submitted,

*Thomas Langer*  
Thomas Langer  
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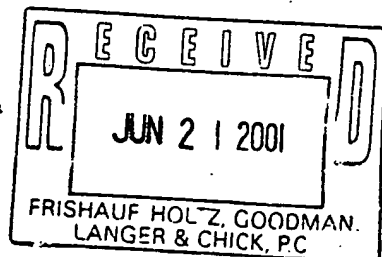


## UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/851,874	05/09/2001	2624	960	960716RE/TL	50	29	5

01933  
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CONFIRMATION NO. 5549

## FILING RECEIPT



\*OC000000006176609\*

Date Mailed: 06/13/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Seiji Tatsuta, Tokyo, JAPAN;

## Domestic Priority data as claimed by applicant

THIS APPLICATION IS A REI OF ~~09/764,138 04/18/2001~~ *USP 5,943,448*  
~~WHICH IS A CON OF PCT/GB99/02316 07/19/1999~~

## Foreign Applications

~~UNITED KINGDOM-9815728-2-07/21/1998~~~~UNITED KINGDOM-9816975-8-08/05/1998~~

*JAPAN 7-336800 12/25/1995*

If Required, Foreign Filing License Granted 06/12/2001

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Title

Assistant Commissioner for Patents  
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Customer Service Center  
Washington, DC 20231



US005,943,448 A

## United States Patent [19]

Tatsuta

[11] Patent Number: 5,943,448

[45] Date of Patent: Aug. 24, 1999

[54] INFORMATION REPRODUCING SYSTEM,  
INFORMATION RECORDING MEDIUM,  
AND INFORMATION RECORDING  
APPARATUS

[75] Inventor: Seiji Tatsuta, Hachioji, Japan

[73] Assignee: Olympus Optical Co., Ltd., Tokyo,  
Japan

[21] Appl. No.: 08/764,136

[22] Filed: Dec. 12, 1996

[30] Foreign Application Priority Data

Dec. 25, 1995 [JP] Japan ..... 7-336800

[51] Int. Cl.<sup>6</sup> ..... G06K 9/38; G06T 7/60

[52] U.S. Cl. .... 382/270; 382/286

[58] Field of Search ..... 382/270, 286,  
382/312, 321, 317, 287; 358-465, 466

[56] References Cited

## FOREIGN PATENT DOCUMENTS

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59-61383 4/1984 Japan.

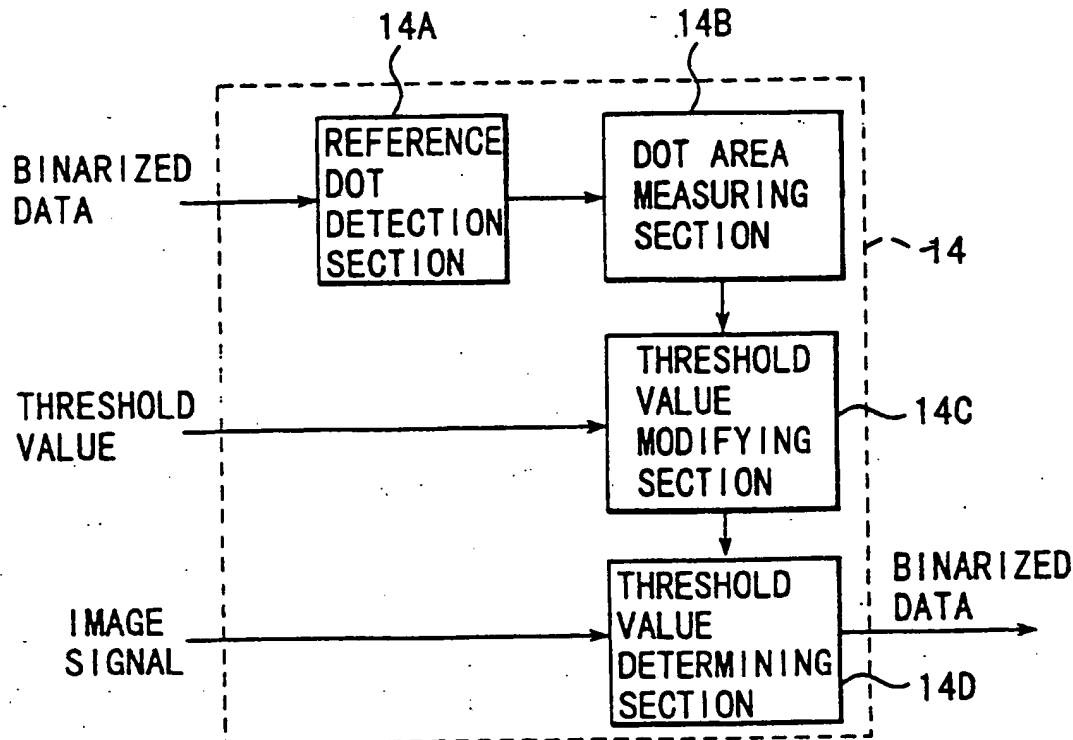
Primary Examiner—Scott Rogers

Attorney, Agent, or Firm—Grishauf, Holtz, Goodman,  
Langer & Chick, P.C.

## [57] ABSTRACT

A binarizing section generates binarized data from an image signal of a dot code on an information recording medium read by a code reading section. The binarizing section has a reference dot detection section, a dot area measuring section, a threshold value modifying section and a threshold value determining section. The reference dot detection section binarizes the image signal with a predetermined threshold value prior to generating binarized data to detect a reference dot from a binarized code image. The dot area measuring section measures the area of the reference dot detected by the reference dot detection section. The threshold value modifying section modifies the threshold value for binarization in such a manner that the area measured by the dot area measuring section approaches a predetermined target value. The threshold value determining section binarizes the image signal with the threshold value modified by the threshold value modifying section.

24 Claims, 50 Drawing Sheets



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Bib Data Sheet

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CONFIRMATION NO. 5549

<b>SERIAL NUMBER</b> 09/851,874	<b>FILING DATE</b> 05/09/2001 <b>RULE</b>	<b>CLASS</b> 382	<b>GROUP ART UNIT</b> 2624	<b>ATTORNEY DOCKET NO.</b> 960716RE/TL
<b>APPLICANTS</b> Seiji Tatsuta, Tokyo, JAPAN;				
<b>** CONTINUING DATA *****</b> THIS APPLICATION IS A REI OF 08/764,136 12/12/1996 PAT 5,943,448				
<b>** FOREIGN APPLICATIONS *****</b> JAPAN 7-336800 12/25/1995				
<b>IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 06/12/2001</b>				
Foreign Priority claimed <input checked="" type="checkbox"/> yes <input type="checkbox"/> no 35 USC 119 (a-d) conditions <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance Verified and Acknowledged		<b>STATE OR COUNTRY</b> JAPAN	<b>SHEETS DRAWING</b> 50	<b>TOTAL CLAIMS</b> 29
Examiner's Signature <i>[Signature]</i> Initials		<b>INDEPENDENT CLAIMS</b> 5		
<b>ADDRESS</b> 01933				
<b>TITLE</b> Information reproducing system, information recording medium, and information recording apparatus				
<b>FILING FEE RECEIVED</b> 960	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees ( Filing ) <input type="checkbox"/> 1.17 Fees ( Processing Ext. of time ) <input type="checkbox"/> 1.18 Fees ( Issue ) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit	